

are designed to operate in the 2.4 GHz ISM band, another band that does not require F.C.C. licensing.

The present invention may be embodied in other specific forms without departing from its spirit or essential characteristics. The described embodiments herein should be
5 deemed only as illustrative. Indeed, the appended claims indicate the scope of the invention; the description, being used for illustrative purposes, does not limit the scope of the invention. All variations that come within the meaning and range of equivalency of the claims are to be embraced within their scope.

What is claimed is:

1. A method for digital data transmission comprising:
modulating a digital signal into a modulated signal for radio transmission,
said modulating comprising encoding raw digital data using 180-degree
phase-shifted encoding;
5 broadcasting said modulated signal with a network identifier, said
broadcasting comprising spread spectrum frequency hopping transmission;
detecting said broadcasting with a device having a sensitivity of between -110
and -107 dBm;
tracking said modulated signal by differentiating between the signal and
10 noise; and
decoding said modulated signal.

2. A system for transmitting data comprising:
means for encoding a digital signal into a 180-degree phase-shifted encoded signal;
15 means for transmitting said encoded signal as a spread spectrum frequency hopped
signal; and
means for receiving said spread spectrum frequency-hopped signal.